NOVEMBER/DECEMBER 2024

CECA54A/CECS54A/CSC53/FECA54A/ FECS54A/FSC53 — DATA MINING

Time : Three hours Maximum : 75 marks

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SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What kinds of data can be Mined?

2. Differentiate between Supervised and Unsupervised Learning.

3. Define Data Warehouse.

4. State three kinds of data warehouse Applications.

5. What is meant by Pattern?

6. Write the purpose of using Aprior Algorithm.

7. List down the basic requirements of Cluster Analysis.

8. State the advantages of Grid-Based Methods.

9. Write any four major applications of data mining.

10. What is weka?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explicate the Parametric and Non-Parametric methods of Data Reduction.

Or

(b) Explain the major tasks in Data Pre-processing.

12. (a) Illustrate the three-tier data Warehousing Architecture.

Or

(b) Explicate the implementation of Data Warehouse.

13. (a) Describe the method of generating Frequent Item Sets without Candidate Generation.

Or

(b) Discuss on Mining Quantitative Association Rules.

14. (a) Write short notes on Web Mining.

Or

(b) Narrate the various Outlier Detection Methods.

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15. (a) Summarize about the data mining trends.

Or

(b) Briefly discuss on recent data mining tools.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss about the Data Mining Functionalities.

17. Explain the Data cube and OLAP.

18. Narrate the techniques used to improve Classification of Accuracy.

19. Expound the significances of Hierarchical Methods in Cluster Analysis.

20. Examine the SQL server Data Tools in detail.

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